

An investor initiative in partnership with





ENERGY, CLIMATE RISK IN INVESTMENT STRATEGY AND PROCESS

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8th June 2017





GOOD AFTERNOON, NICE TO MEET YOU!



PRI, responsible for Investment Practices development

Previous experience:

University of Cambridge, Institute for Sustainability Leadership Société Générale CIB, Debt Capital Markets ABN Amro Rothschild, Equity Capital Markets ABN AMRO, Debt Capital Markets

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Content today

Institution in play - low carbon transition

Portfolio carbon - what is it?

Asset Owner Investment Strategy steps



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NOT THERE YET = TRANSITION#ENERGY-MARKET-INSTITUTION-ON-THE-MOVE



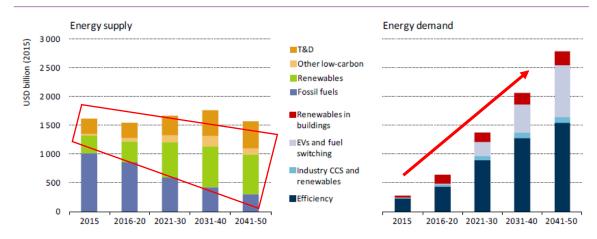
"A low-carbon economy is an economy based on low carbon power sources ...

.. globally implemented low-carbon economies are therefore proposed, as a means to avoid catastrophic climate change, and as a precursor to the more advanced, zero-carbon economy."

Energy Sector Investment to Meet Climate Goals

© OECD/IEA 2017

Figure 2.6 • Average annual global energy supply- and demand-side investment in the 66% 2°C Scenario

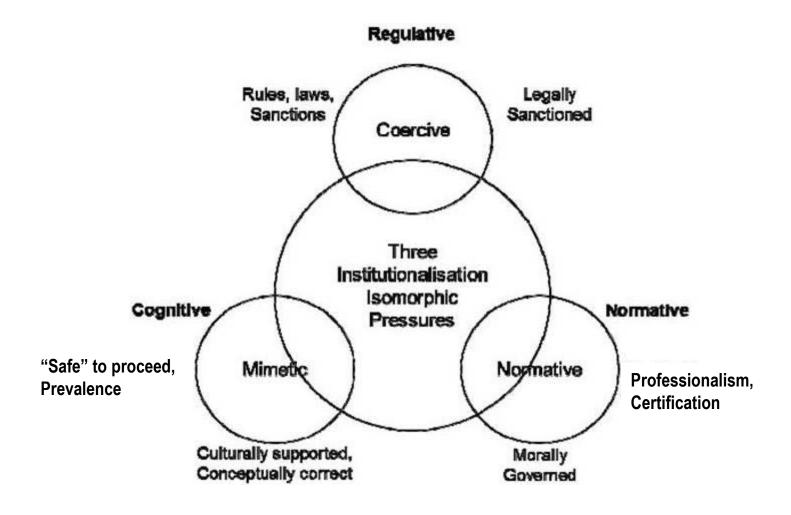


Note: T&D = transmission and distribution; EVs = electric vehicles; CCS = carbon capture and storage.

Key message • The level of supply-side investment remains broadly constant, but shifts away from fossil fuels. Demand-side investment in efficiency and low-carbon technologies ramps up to almost USD 3 trillion in the 2040s.

PRI Principles for Responsible Investment

INSTITUTIONAL PRESSURES TRUMP





BREAKING INTO LAW #SANCTIONED

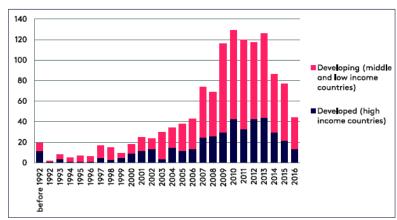
Table 1. Key focus areas for climate-related laws and policies

	Energy	Climate change / low- carbon transitions	General environment laws	Mainstreamed into development plans	Forestry	Green transport	Disaster risk reduction	security
No. of countries	145	125	92	71	47	18	15	12
% of countries	88.41	76.22	56.10	43.29	28.66	10.98	9.15	7.32
No. of laws	520	327	150	97	60	19	Figure 4. Annual le	
% of laws	41.24	25.93	11.90	7.69	4.76	1.51	100	

Global Total: 1997: 60

2017: 1200

Figure 4. Annual legislative action up to 2016 (number of new climate change laws per year)



38

23.17

Source: Climate Change Laws of the World

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GLOBAL PRESS CUTTINGS - PAST FEW DAYS

#ACCEPTED-ON-THE-FRONT-PAGE





18 May:





31 May: Pensions&Investments



Exxon Mobil shareholders overwhelmingly pass climate change risk disclosure

theguardian

1 June:



Paris climate deal / World urges Trump not to dump agreement

Big oil darlings / The Republicans who urged Trump to pull out

THE WALL STREET JOURNAL 26 May:



 $\label{thm:condition} Exxon Mobil \ vote \ shows \ Wall \ St \ diverging \ from \ Donald \ Trump \ on \ climate \ change$



Handelsblatt 1 June:

ELON MUSK UND DAS KLIMAABKOMMEN NEU: vor 23 Min.
Tesla-Chef will Trump bei Ausstieg
nicht länger beraten

Tesla-Chef Elon Musk will Donald Trump nicht länger beraten, wenn dieser den Ausstieg aus dem Pariser Klimaabkommen ankündigt. Deutsche Politiker zeigen sich indes gelassen: Paris sei auch ohne die USA nicht tot. mehr...



De Telegraaf 30 May:

Tom Dumoulin viert thuiskomst met zijn hond

FOTO - Tom Dumoulin is weer thuis en daar geniet de winnaar van de Ronde van Italië met volle teugen van.

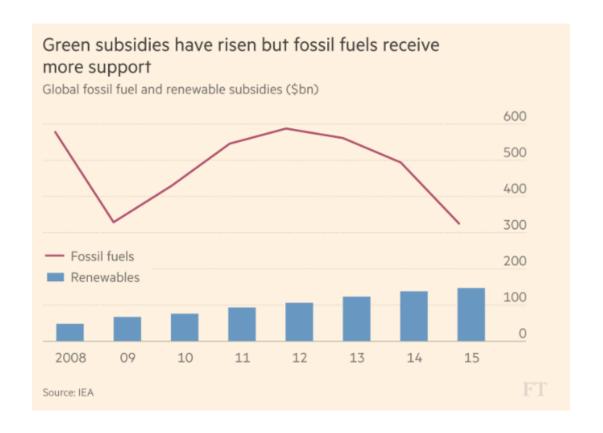


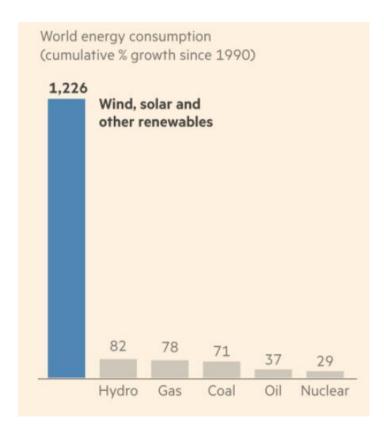
Source: FT, Guardian, IPE, Handelsblatt, De Telegraaf, Wall Street Journal



TREND IS YOUR FRIEND

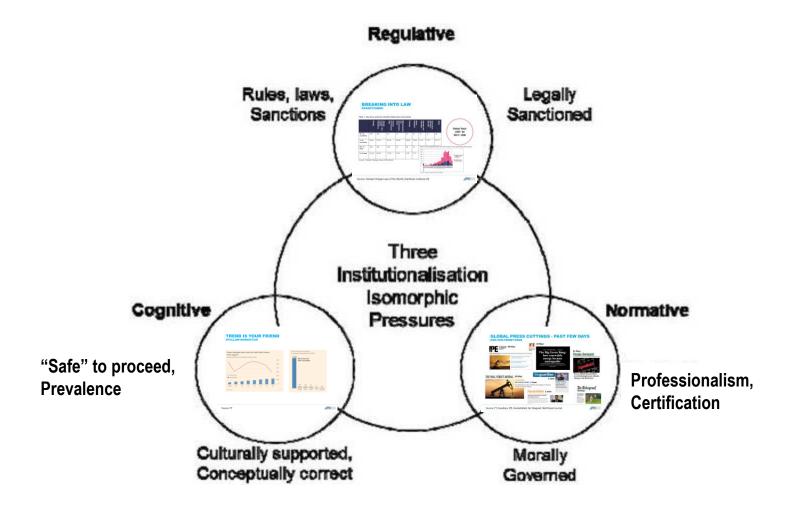
#IN-THE-IN-CROWD





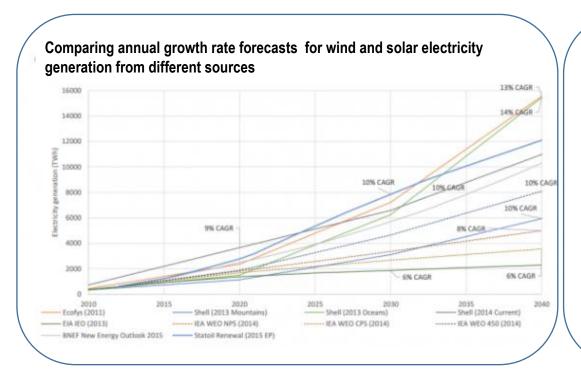


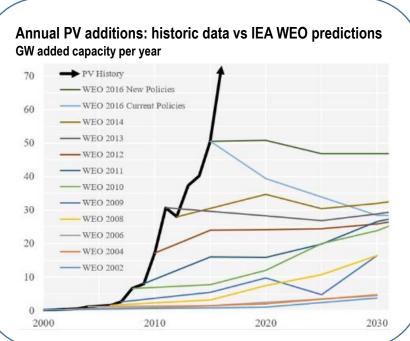
INSTITUTIONAL PRESSURES TRUMP TRUMP





AND THE SPEED MAY SURPRISE #CAN-YOU-BELIEVE-FORECASTS-CAN-FAIL?







LATE JUNE – STAY TUNED

PRI OIL AND CARBON TRACKER OIL & GAS INDUSTRY RISK MAP PUBLISHED

"ONLINE TOOL TO DISCOVER 70 GLOBAL COMPANIES, PROJECT BY PROJECT ENERGY TRANSITION RISKS"





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FSB TCFD READY?



Recommendations and Supporting Recommended Disclosures Governance Strategy Risk Management Metrics and Targets Disclose the organization's Disclose the actual and potential Disclose how the organization Disclose the metrics and targets governance around climateimpacts of climate-related identifies, assesses, and manages used to assess and manage related risks and opportunities. risks and opportunities on climate-related risks relevant climate-related risks and the organization's businesses, opportunities. strategy, and financial planning. Recommended Disclosures Recommended Disclosures Recommended Disclosures Recommended Disclosures a) Describe the board's oversight of a) Describe the climate-related risks a) Describe the organization's processes a) Disclose the metrics used by the organization to assess climate-related climate-related risks and opportunities. and opportunities the organization for identifying and assessing climatehas identified over the short, medium, related risks. risks and opportunities in line with its and long term. strategy and risk management process. b) Describe the organization's processes b) Describe management's role in b) Describe the impact of climateb) Disclose Scope 1, Scope 2, and, if assessing and managing climate-related related risks and opportunities on the for managing climate-related risks. appropriate, Scope 3 greenhouse gas risks and opportunities. organization's businesses, strategy, and (GHG) emissions, and the related risks. financial planning. c) Describe the potential impact of c) Describe how processes for identifying, c) Describe the targets used by the different scenarios, including a assessing, and managing climateorganization to manage climaterelated risks are integrated into the related risks and opportunities and 2°C scenario, on the organization's businesses, strategy, and financial organization's overall risk management. performance against targets.

Source: FSB TCFD



PORTFOLIO CARBON METRICS

	Pure risk	"Footprintings"		"Transitionals"		
	Scores	CO2 Footprint	Reserve Emissions	Green-Brown Share	Energy Transition	
Description:	Modelling of qualitative & quantitative	Aggregation of current emissions, 'financed' emissions	Aggregation of 'owned' emissions	Solutions vs. aggravators	Energy mix alignment with transition scenario	
Horizon:	History	History	Future	History / Future	Future	
FSB TCFD fit:	Partly	Partly	Partly	Partly	Yes	
Benchmark:	Yes	Yes	Yes	Yes	Yes	
PROs:	Simplicity, Cross portfolio, Ease of allocation, Lowest cost.	Simplicity, Cross portfolio, Measure intensity, Low cost.	Sector specific, Locked-in emissions, Links to climate targets.	Links to climate targets, Action oriented.	Reference to global objectives, Link to climate targets.	
CONs:	Blackbox, Process oriented, Subjective, Value on its own.	Goal setting, Scope, Accounting issues, Value on its own.	Limited to sectors	Complexity Hard to compare cross sectors,	Complexity	

Source: PRI

Content

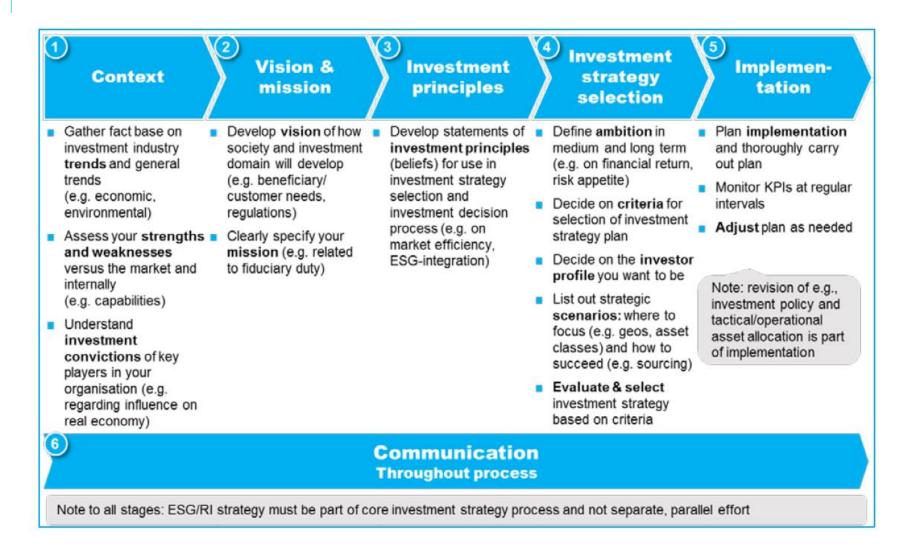
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AN INVESTMENT STRATEGY PROCESS





TWO DUTCH EXAMPLES

DEVELOPING AN ASSET OWNER CLIMATE CHANGE STRATEGY

In 2015, Dutch healthcare pension fund PFZW, committed to increasing sustainable investments four-fold to 12% of assets and reducing the carbon footprint of its entire portfolio by 50% by 2020. Sustainable investments will include direct investments in green energy, clean technology, food security and water access. The footprint will be halved by comparing companies in each sector, picking the best performers and divesting from companies with the highest CO2 emissions. The fund will also engage with companies to lower their CO2 emissions.

ABP, the Dutch civil servants' pension fund, has in 2015 committed to a 25% reduction in greenhouse gas emission and doubling of investment in renewable energy and environmentally friendly technologies by 2020.





Time to reflect....

Observations?





Source: Google





unpri.org/Berlin2017



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#PRIinPerson

